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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Complete if Known	
Application Number	10/714689
Filing Date	2003-11-17
First Named Inventor	LOU; Sheng C.
Art Unit	1648
Examiner Name	PARKIN, Jeffrey S.

Sheet

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Attorney Docket No: 6755USD1

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	001	US4945042	07-31-1990	GEIGER, Thomas et al.	
	002	US5156949	10-20-1992	LUCIW, Paul A. et al.	
	003	US5627026	03-06-1997	O'CONNOER, Thomas et al.	
	004	US20030049604	03-13-2003	CHARNEAU, Pierre et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T e
		Country Code ³ - Number ⁴ -Kind Code ⁵ (if known)				
	005	DE19727943A1	09-24-1998	BOEHRINGER MANNHEIM GMBH, 68305 MANNHEIM, DE.	English abstract only	<input checked="" type="checkbox"/>
	006	DE4226180A1	04-28-1994	BOEHRINGER MANNHEIM GMBH.	No English translation	<input type="checkbox"/>
	007	EP186799A1	07-09-1986	BEHRINGERWERKE AKTIENGESELLSCHAFT	English abstract only	<input type="checkbox"/>
	008	EP246829B1	11-25-1987	VIRAL TECHNOLOGIES, INC.	English abstract only	<input checked="" type="checkbox"/>
	009	EP265851A2	05-04-1988	BEHRINGERWERKE AKTIENGESELLSCHAFT	English abstract only	<input checked="" type="checkbox"/>
	010	EP280211A2	08-31-1988	BOEHRINGER MANNHEIM GMBH.	English abstract only	<input checked="" type="checkbox"/>
	011	EP345375A1	12-13-1989	INNOGENETICS N.V.		<input type="checkbox"/>
	012	EP345461B1	09-28-1994	ABBOTT LABORATORIES.	English abstract	<input checked="" type="checkbox"/>

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013	EP351248B1	01-17-1990	IDEXX LABORATORIES		<input type="checkbox"/>
014	EP386713B1	09-18-1990	ABBOTT LABORATORIES.	English abstract only	<input checked="" type="checkbox"/>
015	EP595211A1	05-04-1994	BOEHRINGER MANNHEIM GMBH.	English abstract only	<input checked="" type="checkbox"/>
016	WO9429725A1	12-22-1994	ABBOTT LABORATORIES. et al.		<input type="checkbox"/>
017	WO9523973A3	09-08-1995	ABBOTT LABORATORIES.		<input type="checkbox"/>
018	WO9603423A1	02-08-1996	BOEHRINGER MANNHEIM GMBH. et al	abstract only	<input type="checkbox"/>
019	WO9603651A1	02-08-1996	BOEHRINGER MANNHEIM GMBH. et al	abstract only	<input type="checkbox"/>
020	WO9603652A1	02-08-1996	BOEHRINGER MANNHEIM GMBH. et al	abstract only	<input type="checkbox"/>
021	WO9612809A2	05-02-1996	INSTITUT PASTEUR. et al.	English abstract only	<input type="checkbox"/>

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022	"ACADEMIC PRESS DICTIONARY OF SCIENCE AND TECHNOLOGY", PP.1808.		<input type="checkbox"/>
023	APETREI et al., "Lack of screening test sensitivity during HIV-1 non-subtype B seroconversions", AIDS, 1996, 10, F57-F60.		<input type="checkbox"/>
024	Budapest treaty on the international recognition of the deposit of microorganisms for the purposes of patent procedure, Deposits of DSM ACC2299, DSM ACC2300, DSM ACC2301, and DSM ACC2310, all dated March 11, 1997.		<input type="checkbox"/>
025	CLAVEL, Francois, "HIV-2, the West African AIDS Virus," AIDS, 1987, pp. 135-140, Vol. 1.		<input type="checkbox"/>

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	026	CONSTANTINE et al., "Serologic tests for the retroviruses: approaching a decade of evolution", AIDS, 1993, 7, 1-13.	<input type="checkbox"/>
	027	COUROUCE et al., "Effectiveness of assays for antibodies to HIV and p24 antigen to detect very recent HIV infections in blood donors. The Retrovirus Study Group of the French Society of Blood Transfusion", AIDS, 6 (12), 1992, pp. 1548-1550.	<input type="checkbox"/>
	028	FILICE et al., "Sensitivity and specificity of anti-HIV ELISA employing recombinant and synthetic viral antigenic peptides" (p24, p66, gp120) (gp41) ",MICROBIOLOGICA, 14, pp. 185-194, 1991.	<input type="checkbox"/>
	029	GALLARDA et al., "Early Detection of Antibody to Human Immunodeficiency Virus Type 1 by Using an Antigen Conjugate Immunoassay Correlates with the Presence of Immunoglobulin M Antibody", JOURNAL OF CLINICAL MICROBIOLOGY, 1992, p. 2379-2384 Vol. 30, No. 9.	<input type="checkbox"/>
	030	GITTI et al., "Structure of the Amino-Terminal Core Domain of the HIV-1 Capsid Protein", SCIENCE, 273, 1996, p. 231-235.	<input type="checkbox"/>
	031	GLASER et al., "Binding kinetics of an antibody against HIV p24 core protein measured with real-time biomolecular interaction analysis suggest a slow conformational change in antigen p24", Journal of Immunological Methods, 189, 1996, pp. 1-14.	<input type="checkbox"/>
	032	HASHIDA et al., "Earlier Diagnosis of HIV-1 Infection by Simultaneous Detection of p24 Antigen and Antibody IgGs to p17 and Reverse Transcriptase in Serum With Enzyme Immunoassay," Journal of Clinical Laboratory Analysis, 1996, pp. 213-219, Vol. 10, Wiley-Liss, Inc.	<input type="checkbox"/>
	033	HASHIDA et al., "Immune Complex Transfer Enzyme Immunoassay That Is More Sensitive and Specific than Western Blotting for Detection of Antibody Immunoglobulin G to Human Immunodeficiency Virus Type 1 in Serum with Recombinant pol and gag Proteins as Antigens," Clinical And Diagnostic Laboratory Immunology, 1995, pp. 535-541, Vol. 2 (5).	<input type="checkbox"/>
	034	HASHIDA et al., "Shortening of the window period in diagnosis of HIV-1 infection by simultaneous detection of p24 antigen and antibody IgG to p17 and reverse transcriptase in serum with ultrasensitive enzyme immunoassay," Journal of Virological Methods, 1996, pp. 43-53, Vol. 62.	<input type="checkbox"/>
	035	HINKULA et al., "EPITOPE MAPPING OF THE HIV-1 gag REGION WITH MONOClonal ANTIBODIES", Molecular Immunology, Vol. 27, No. 5, pp. 395-403.	<input type="checkbox"/>

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		1990.	
036		International Search Report for application no. PCT/US2001/43179, Mailed on 05/12/2002, 4 pages.	<input type="checkbox"/>
037		JANVIER et al., "Linear B-Cell Epitopes of the Major Core Protein of Human Immunodeficiency Virus Types 1 and 2", J. Virol., 64 (9), 4258-4263, 1990.	<input type="checkbox"/>
038		JANVIER et al., "Linear B-Cell Epitopes of the Major Core Protein of Human Immunodeficiency Virus Types 1 and 2", Author's Correction, J. Virol., 66(1), 1990, 613.	<input type="checkbox"/>
039		KUSK et al., "Mapping of Linear B-Cell Epitopes on the Major Core Protein p24 of Human Immunodeficiency Virus Type 1 (HIV-1), AIDS RESEARCH AND HUMAN RETROVIRUSES, 8 (10), 1992, 1789-1794.	<input type="checkbox"/>
040		MULLER et al., "Co-expression of the Subunits of the Heterodimer of HIV-1 Reverse Transcriptase in Escherichia coli", JOURNAL OF BIOLOGICAL CHEMISTRY, 264 (24), 13975-13978, 1989.	<input type="checkbox"/>
041		NG, Valerie et al., "Reliable Confirmation of Antibodies to Human Immunodeficiency Virus Type 1 (HIV-1) with an Enzyme-Linked Immunoassay Using Recombinant Antigens Derived from the HIV-1 gag, pol, and env Genes", JOURNAL OF CLINICAL MICROBIOLOGY, 1989, 27 (5), p. 977-982.	<input type="checkbox"/>
042		NIEDRIG et al., "Monoclonal Antibodies Directed against Human Immunodeficiency Virus (HIV) gag Proteins with Specificity for Conserved Epitopes in HIV-1, HIV-2 and Human Immunodeficiency Virus", J. Gen. Virol., 1988, 69, 2109-2114.	<input type="checkbox"/>
043		POLLET et al., "Confirmation and Differentiation of Antibodies to Human Immunodeficiency Virus 1 and 2 with a Strip-Based Assay Including Recombinant Antigens and Synthetic Peptides," Clinical Chemistry, 1991, pp. 1700-1707, Vol. 37.	<input type="checkbox"/>
044		RAPPORT de stage, "Caracterisation des epitopes de la protein p24 du virus VIH-1 par le systeme NOVATOPE", 1998.	<input type="checkbox"/>
045		ROBERT-HEBMANN et al., "CLONAL ANALYSIS OF MURINE B CELL RESPONSE TO THE HUMAN IMMUNODEFICIENCY VIRUS TYPE 1 (HIV1)-gag 1, 17 AND p25 ANTIGENS", Molecular Immunology, Vol. 29, No 6, 1991, 729-738.	<input type="checkbox"/>
046		SAITO et al., "Overproduction of Human Immunodeficiency Virus Type I Reverse Transcriptase in Escherichia coli and Purification of the Enzyme", Microbiol. Immunol., Vol. 34 (6), 509-521, 1990.	<input type="checkbox"/>

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	047	SCHOCHELMAN et al., "AIDS Testing," Springer Verlag, New York, Berlin, Heidelberg, 1994, 411.	<input type="checkbox"/>
	048	SHARP et al., "Origins and diversity of human immunodeficiency viruses", AIDS, 1994, 8 (suppl 1), 27-42.	<input type="checkbox"/>
	049	SIMON et al., "Reliability of western blotting for the confirmation of HIV-1 seroconversion", Lancet, 1992, 340 (8834-8835), 1541-1542.	<input type="checkbox"/>
	050	TIJSSEN P. "Laboratory techniques in biochemistry and molecular biology", Table of Contents, 1985, Volume 15 (Burdon and van Knippenberg, Eds.).	<input type="checkbox"/>
	051	USHIO et al., "Cloning of the cDNA for Expression in Escherichia Activities of the Protein Human IFN-gamma-Inducing Factor, Expression in Escherichia coli, and Studies on the Biologic Activities of the Protein", The Journal of Immunology, 156, 1996, P. 4274-4279.	<input type="checkbox"/>
	052	WEBER et al., "Evaluation of the reliability of 6 current anti-HIV-1/HIV-2 enzyme immunoassays", Journal of Virological Methods , 55, 1995, pp. 97-104.	<input type="checkbox"/>
	053	WEBER et al., "The use of recombinant antigens in ELISA procedures for the quantification of intrathecally produced HIV-1-specific antibodies," Journal of Immunological Methods, 1991, pp. 133-137, Vol. 136.	<input type="checkbox"/>
	054	WEBER et al., "Quantitative Detection of Human Immunodeficiency Virus (HIV) Antigen by the Enzymun-Test: Comparison with Alternative Assays and Nucleic Acid Sequence-Based Amplification of HIV Type 1 RNA," Journal of Clinical Microbiology, 1986, 34, 6, pp. 1440-1447.	<input type="checkbox"/>
	055	Bohringer Mannheim Immunodiagnostics, ENZYMUN-TEST® HIV combi, Catalog No. 1877631, Producit insert sheet release 698-1936107001 05 02, 2004	<input type="checkbox"/>
	056	ZAAIJER et al., "Early detection of antibodies to HIV-1 by third-generation assays", Lancet, 340, 1992, 770-772.	<input type="checkbox"/>

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